



Operating Permit - DENIAL

217/782-2113

Application No.: 84080076
I.D. No.: 03T006ABH
Applicant's Designation: EAGLE-PIFCO
Received: August 28, 1984
Operation of: PIFCO-DSTRUCTIVE DISTILLATION UNIT
Location: 7710 West 57th Street, Summit, IL

Application No.: 84080077
I.D. No.: 03T276ABP
Applicant's Designation: ROSEMONT
Received: August 28, 1984
Operation of: PIFCO-DSTRUCTIVE DISTILLATION UNIT
Location: 5995 North River Rd, Rosemont, IL

Application No.: 84080078
I.D. No.: 03T174ABP
Applicant's Designation: STATE OF ILLINOIS
Received: August 28, 1984
Operation of: PIFCO-DESTRUCTIVE DISTILLATION UNIT
Location: State of Illinois Maintenance Facility, McCook, IL

Application No.: 84080079
I.D. No.: 03T174AB0
Applicant's Designation: J's SEMI
Received: August 28, 1984
Operation of: PIFCO-DESTRUCTIVE DISTILLATION UNIT
Location: 8765 West Joliet Street, McCook, IL

Application No.: 84080080
I.D. No.: 03T04BAB8
Applicant's Designation: LIWCO-PIFCO
Received: August 28, 1984
Operation of: PIFCO-DESTRUCTIVE DISTILLATION UNIT
Location: 6700 West 103rd Street, Chicago Ridge, IL

Application No.: 84080081
I.D. No.: 03T126AAQ
Applicant's Designation: GEMINI-PIFCO
Received: August 28, 1984
Operation of: PIFCO-DESTRUCTIVE DISTILLATION UNIT
Location: 6201 South East Ave., Hodgkins, IL

DLPC Site: 1430050005
County: Peoria
Name of Site: Process & Industrial Fabrication Co.
Log No: 1984-802
Date Received: August 24, 1984

EPA Region 5 Records Ctr.



325989



October 31, 1984

Process & Industrial Fabrication Company
P.O. Box 446
Brimfield, IL 61517

Attention: Calvin J. Bragg B. S. Ch. E.

The preceding listed permit application(s) is/are DENIED because the application fails to show compliance with Section 39(a) of the Environmental Protection Act, 1981 Ill. Rev. Stat. Ch. 111 1/2, Section 1001 et seq. Section 39(a) requires that the applicant provide as part of its application "proof... that the facility, equipment, vehicle, vessel, or aircraft will not cause a violation of this Act or of regulations hereunder." The Agency is unable, based upon the pending application, to determine whether the applicant has submitted adequate proof due to the following informational deficiencies which were sent to you in the September 20, 1984 REQUEST FOR ADDITIONAL INFORMATION letter.

35 Ill. Adm. Code 201.157 (formerly Rule 103(b)(3)) specifies minimum data and information to be contained in an operating permit application. As your permit application did not contain this information, the Agency could not determine compliance with the Act and Regulations.

Specifically, the following information must be provided in order for the Agency to determine compliance of your PIFCO-DESTRUCTIVE DISTILLATION UNIT with the Regulations:

- (1) During the meeting on Friday, September 7, 1984 it was disclosed that all film chips were to be treated at a single site in Rosemont Illinois. Please submit a letter requesting the deletion of the other sites and provide a plot plan for the new site in Rosemont.
- (2) A dimensioned drawing of the PIFCO Unit should be submitted as part of the application.
- (3) A material and energy balance of the system should be submitted as part of the operation.
- (4) An operational description of the unit shall be provided including emission monitoring procedures and equipment.
- (5) A compliance demonstration plan shall be submitted with a detailed startup and emission testing program. It shall specify at a minimum the following information:



- a. Schedule for startup and testing program.
- b. Total amount of film chips to be used for the purpose of demonstrating compliance.
- c. Startup feed rates.
- d. Testing and analysis methods for particulates and carbon monoxide.
- e. Commercial operation is to begin only after review and approval of the emission test results.

In addition, the Agency had noted several other deficiencies which were presented to you in writing during the September 7, 1984 meeting. A list of these is reported for your information in reapplying but it does not necessarily include all such deficiencies, even in the information which has been submitted, because the Agency has not conducted a complete review due to the application's informational deficiencies noted above:

(1) Please provide the following information:

- A. Signatures of the owner, operator, and professional engineer.
- B. A topographical map and a 100-year flood map for each site that will be treated.
- C. The hours of operation.
- D. The number and duties of employees.
- E. The precautions for explosion or spills.
- F. The methods to control dust and odors -- describe protection from wind.
- G. Daily clean-up procedures.

(2) Where will the incinerator sit? Please show the place on a map.

(3) Please describe what alarms and fire fighting equipment will be used to stop or prevent explosions.

(4) Please provide a description of and a plan sheet showing the following:

- A. Any primary or secondary containment control systems.
- B. Storm sewers and provisions for preventing or managing run-on and run-off.

(5) Please provide the inspection procedures and schedules for your incinerating unit.



(6) Please provide the following information:

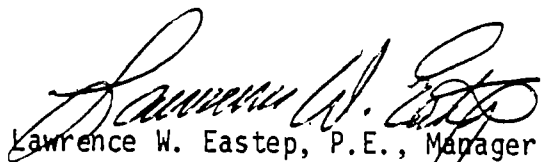
- A. A cost estimate and financial assurance for closure and post-closure of site.
- B. How will you prevent contaminated water from entering the sewer system?
- C. Where will the soil, wash and blacktop waste from the clean-up go?
- D. What will happen to the storage trailers?
- E. How will you get the trailers to the incinerating unit?

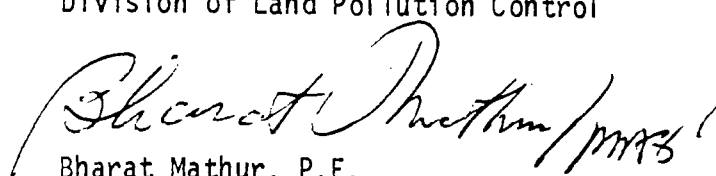
(7) Please provide engineering diagrams and information on the following:

- A. High-VAR air transport system.
- B. Portable lighting system.
- C. Trailer-mounted destructive distillation system.

The Agency will be pleased to conduct a complete review upon receipt of (a) new application(s) containing all necessary information.

If you have any questions concerning this letter, please contact Marla Laymon, DLPC, 217/782-6760 or Jim Cobb, DAPC, 217/782-2113.


Lawrence W. Eastep, P.E., Manager
Permit Section
Division of Land Pollution Control


Bharat Mathur, P.E.
Manager, Permit Section
Division of Air Pollution Control

LE:BM:JDC:st:2190d/29-32

cc: Region 1 - DAPC
Northern Region-DLPC

CALCULATION SHEET

Facility <u>Process & Industrial Fabrication</u> Anal. Eng. <u>Jim Cobb</u> Date <u>10 18 84</u> Rev. Eng. _____ Date _____	I.D. <u>031 126 AAQ</u> PN <u>84 08 0081</u> Date Rec. <u>08 28 84</u>
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Section 1 This facility has not been placed on the Master Check List

Section 2 The application has been filed for an operating permit

Section 3 This application covers the use of the PIFCO - Destructive Distillation Unit to destroy cyanide treated film chips stored in semitrail at this site. The unit is mobile and will be used at the other 5 sites in Cook County to convert the chip to a carbon chip and burning the volatile material. A process rate of 3,240 lb/hr has been listed but no development of bench scale data has been supplied to support the destruction of the cyanide in the chip residue or the combustion gasses released from the flame.

An additional information letter was sent Sept 20, 1984 requesting clarification of the technical details and previous use and development of the unit.

Other deficiencies were presented in writing during the Sept 7, 1984 meeting. Notice was given that such information was to be presented by the end of Sept but none was received.

Section 8 It is recommended that this application be denied in conjunction with DLPIC for failure to prove compliance with applicable sections of 35 IL Adm Code 201.41, 212.141, and 216.141 (formerly Rlc 102, 203G, & 206G).

Tracking Form - LA

Projects Initiated at Time of Receipt of Application

PROJECT NAME: Process & Industrial Fabrication CoAPPLICANT CONTACT PERSON/PHONE NUMBER: Lewis AmbroseAGENCY (LEAD) COORDINATOR: landDIVISIONAL ASSIGNMENTS: 8/24/84 8/24/84
APC LPC PWS WPC OTHER

					DATES	
					SCHEDULED	ACTUAL
1. Application Received By:	<u>✓</u>	<u>✓</u>				
	APC	LPC	PWS	WPC		
2. Notice Sent to Other Divisions -						<u>8/28</u>
3. Meeting to Review Completeness and Identify Problems -						<u>9/15</u>
4. Initial Action -						<u>9/15</u>
- Review and Process						
- Notice of Incompleteness						
- Denial						<u>9/15</u>
5. Interim Review -						
6. Public Participation -						
- Not Applicable						
- Applicable						
a. Public Notice Sent -						
b. Hearing Held -						
7. Final Review Meeting -						
8. Final Action -						
- Issue Permit						
- Denial						<u>11/5/84</u>

cc: Manager of Environmental Programs
 APC Permit Section Manager
 LPC Permit Section Manager
 PWS Permit Section Manager
 WPC Permit Section Manager

PROCESS & INDUSTRIAL FABRICATION CO.

MAILING ADDRESS
P.O. Box 446 • Brimfield, Illinois 61517

FABRICATION FACILITY
6100 S.W. Washington St. • Bartonville, Illinois 61607
PH. 309-697-9518

A.S.M.E.-A.-U.-P.P.
Pressure Code Fabrication

Systems Design
Module & Skid Mounting

Oil Reclamation Systems
Control Panels

August 23, 1984

RECEIVED

AUG 24 1984

IEPA-DLPC ECE 1701

AUG 28 1984

IEPA - DAPC - SPFL

Mr. William Child
Deputy Division Manager
Land Pollution Control
Illinois Environmental Protection Agency
Permit Section - Land & Air
2200 Churchill Road
Springfield, Illinois 62706

Subject: Permit Forms for Air and Land Pollution Control for
Process & Industrial Fabrication Company's Proposal
for the Cyanide Tainted Film Chips Disposal

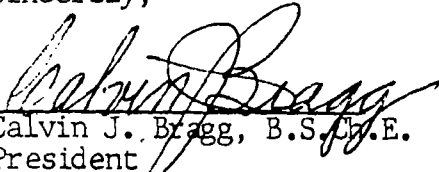
Dear Sir,

Attached please find two (2) copies of the Air and Land Pollution Control completed forms.

The financial assurance referred to in the Land section is the normal bond required by any operator or construction company while doing business on a site.

Due to the shortage of time allotted for the completion of these forms, I am assuming that there are some omissions in this initial presentation. If clarification of any areas are required, please do not hesitate to contact me and I will up-date and resubmit any section necessary in a more detailed manner.

Sincerely,


Calvin J. Bragg, B.S. Ch.E.
President

CJB/rm
encl.
vec

RECEIVED

AUG 28 1984

IEPA - DAPC - SPFL



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

APPLICATION FOR A PERMIT (A)

☐ CONSTRUCT ☒ OPERATE

NAME OF EQUIPMENT TO BE
CONSTRUCTED OR OPERATED: PIFCO - DESTRUCTIVE DISTILLATION UNIT

FOR AGENCY USE ONLY

I. D. NO.

PERMIT NO.

DATE

031126AAR
84 08 0081
8-28-84

1a. NAME OF OWNER:

1b. STREET ADDRESS OF OWNER:

1c. CITY OF OWNER:

1d. STATE OF OWNER:

1e. ZIP CODE:

2a. NAME OF OPERATOR:

PROCESS & INDUSTRIAL FABRICATION COMPANY

2b. STREET ADDRESS OF OPERATOR:
6100 S.W. WASHINGTON STREET

2c. CITY OF OPERATOR:
BARTONVILLE

2d. STATE OF OPERATOR:

ILLINOIS

2e. ZIP CODE:

61607

3a. NAME OF CORPORATE DIVISION OR PLANT:

GEMINI LEASING

3c. CITY OF EMISSION SOURCE:

HODGKINS

3d. LOCATED WITHIN CITY
LIMITS: ☐ YES ☐ NO

3b. STREET ADDRESS OF EMISSION SOURCE:

6201 SOUTH EAST AVENUE

3e. TOWNSHIP:

3f. COUNTY:

COOK

3g. ZIP CODE:

4. ALL CORRESPONDENCE TO: (TITLE AND/OR NAME OF INDIVIDUAL)

C. J. BRAGG

5. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE)

☐ OWNER:

☒ OPERATOR

☐ EMISSION SOURCE

5. TELEPHONE NUMBER FOR AGENCY TO CALL:

(312) 748-7200/(309) 697-9518

7. YOUR DESIGNATION FOR THIS APPLICATION: (C)

GEMINI - PIFCO

8. THE UNDERSIGNED HEREBY MAKES APPLICATION FOR A PERMIT AND CERTIFIES THAT THE STATEMENTS CONTAINED HEREIN ARE TRUE AND CORRECT, AND FURTHER CERTIFIES THAT ALL PREVIOUSLY SUBMITTED INFORMATION REFERENCED IN THIS APPLICATION REMAINS TRUE, CORRECT AND CURRENT, BY AFFIXING HIS SIGNATURE HERETO HE FURTHER CERTIFIES THAT HE IS AUTHORIZED TO EXECUTE THIS APPLICATION.

AUTHORIZED SIGNATURE(S): (D)

BY
SIGNATURE

RECEIVED

TYPED OR PRINTED NAME OF SIGNER

AUG 28 1984

TITLE OF SIGNER

IEPA - DAPC - SPFLD

BY

SIGNATURE

CALVIN J. BRAGG

TYPED OR PRINTED NAME OF SIGNER

PRESIDENT

TITLE OF SIGNER

8/23/84
DATE

(A) THIS FORM IS TO PROVIDE THE AGENCY WITH GENERAL INFORMATION ABOUT THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS FORM MAY ONLY BE USED TO REQUEST ONE TYPE OF PERMIT - CONSTRUCTION OR OPERATION - AND NOT BOTH.

(B) ENTER THE GENERIC NAME OF THE EQUIPMENT TO BE CONSTRUCTED OR OPERATED. THIS NAME WILL APPEAR ON THE PERMIT WHICH MAY BE ISSUED PURSUANT TO THIS APPLICATION. THIS FORM MUST BE ACCOMPANIED BY OTHER APPLICABLE FORMS AND INFORMATION.

(C) PROVIDE A DESIGNATION IN ITEM 7 ABOVE WHICH YOU WOULD LIKE THE AGENCY TO USE FOR IDENTIFICATION OF YOUR EQUIPMENT. YOUR DESIGNATION WILL BE REFERENCED IN CORRESPONDENCE FROM THIS AGENCY RELATIVE TO THIS APPLICATION. YOUR DESIGNATION MUST NOT EXCEED TEN (10) CHARACTERS.

(D) THIS APPLICATION MUST BE SIGNED IN ACCORDANCE WITH PCB REGS., CHAPTER 2, PART 1, RULE 103(a)(4) OR 103(b)(5) WHICH STATES: "ALL APPLICATIONS AND SUPPLEMENTS THERETO SHALL BE SIGNED BY THE OWNER AND OPERATOR OF THE EMISSION SOURCE OR AIR POLLUTION CONTROL EQUIPMENT, OR THEIR AUTHORIZED AGENT, AND SHALL BE ACCOMPANIED BY EVIDENCE OF AUTHORITY TO SIGN THE APPLICATION."

IF THE OWNER OR OPERATOR IS A CORPORATION, SUCH CORPORATION MUST HAVE ON FILE WITH THE AGENCY A CERTIFIED COPY OF A RESOLUTION OF THE CORPORATION'S BOARD OF DIRECTORS AUTHORIZING THE PERSONS SIGNING THIS APPLICATION TO CAUSE OR ALLOW THE CONSTRUCTION OR OPERATION OF THE EQUIPMENT TO BE COVERED BY THE PERMIT.

☒ YES ☐ NO

IF A PLOT PLAN/MAP HAS PREVIOUSLY BEEN SUBMITTED, SPECIFY:

AGENCY I.D. NUMBER _____

APPLICATION NUMBER _____

IS THE APPROXIMATE SIZE OF APPLICANT'S PREMISES LESS THAN 1 ACRE?

☐ YES ☐ NO: SPECIFY _____ ACRES

10. DOES THIS APPLICATION CONTAIN A PROCESS FLOW DIAGRAM(S) THAT ACCURATELY AND CLEARLY REPRESENTS CURRENT PRACTICE.

☒ YES ☐ NO

11a. WAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, OWNED OR CONTRACTED FOR, BY THE APPLICANT PRIOR TO APRIL 14, 1972:

☐ YES ☒ NO

IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT A, THAT:

- (a) LISTS OR DESCRIBES THE EQUIPMENT
- (b) STATES WHETHER THE EQUIPMENT WAS IN COMPLIANCE WITH THE RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION PRIOR TO APRIL 14, 1972.

11b. HAS ANY EQUIPMENT, COVERED BY THIS APPLICATION, NOT PREVIOUSLY RECEIVED AN OPERATING PERMIT:

☒ YES ☐ NO

IF "YES", ATTACH AN ADDITIONAL SHEET, EXHIBIT B, THAT:

- (a) LISTS OR DESCRIBES THE EQUIPMENT
- (b) STATES WHETHER THE EQUIPMENT
 - (i) IS ORIGINAL OR ADDITIONAL EQUIPMENT
 - (ii) REPLACES EXISTING EQUIPMENT, OR
 - (iii) MODIFIES EXISTING EQUIPMENT
- (c) PROVIDES THE ANTICIPATED OR ACTUAL DATES OF THE COMMENCEMENT OF CONSTRUCTION AND THE START-UP OF THE EQUIPMENT

12. IF THIS APPLICATION INCORPORATES BY REFERENCE A PREVIOUSLY GRANTED PERMIT(S), HAS FORM APC-210, "DATA AND INFORMATION--INCORPORATION BY REFERENCE" BEEN COMPLETED.

☐ YES ☒ NO

13. DOES THE STARTUP OF AN EMISSION SOURCE COVERED BY THIS APPLICATION PRODUCE AIR CONTAMINANT EMISSION IN EXCESS OF APPLICABLE STANDARDS:

☐ YES ☒ NO

IF "YES," HAS FORM APC-203, "OPERATION DURING STARTUP" BEEN COMPLETED FOR THIS SOURCE:

☐ YES ☐ NO

14. DOES THIS APPLICATION REQUEST PERMISSION TO OPERATE AN EMISSION SOURCE DURING MALFUNCTIONS OR BREAKDOWNS:

☐ YES ☒ NO

IF "YES," HAS FORM APC-204, "OPERATION DURING MALFUNCTION AND BREAKDOWN" BEEN COMPLETED FOR THIS SOURCE:

☐ YES ☐ NO

15. IS AN EMISSION SOURCE COVERED BY THIS APPLICATION SUBJECT TO A FUTURE COMPLIANCE DATE:

☐ YES ☒ NO

IF "YES," HAS FORM APC-202, "COMPLIANCE PROGRAM & PROJECT COMPLETION SCHEDULE," BEEN COMPLETED FOR THIS SOURCE:

☐ YES ☐ NO

16. DOES THE FACILITY COVERED BY THIS APPLICATION REQUIRE AN EPISODE ACTION PLAN (REFER TO GUIDELINES FOR EPISODE ACTION PLANS):

☐ YES ☒ NO

17. WAS THIS OPERATION THE SUBJECT OF A VARIANCE PETITION FILED WITH THE ILLINOIS POLLUTION CONTROL BOARD ON OR BEFORE JUNE 13, 1972:

☐ YES ☒ NO

IF "YES," CITE: PCB NUMBER(S) _____, DATE OF BOARD ORDER _____

WAS CONSTRUCTION OR MODIFICATION OF EQUIPMENT, SUFFICIENT TO ACHIEVE COMPLIANCE WITH THE "RULES AND REGULATIONS GOVERNING THE CONTROL OF AIR POLLUTION" EFFECTIVE PRIOR TO APRIL 14, 1972, COMMENCED PRIOR TO APRIL 14, 1972:

☐ YES ☐ NO

IF "YES," EXPLAIN IN DETAIL, AND IDENTIFY EXPLANATION AS EXHIBIT D.

19. LIST AND IDENTIFY ALL FORMS, EXHIBITS, AND OTHER INFORMATION SUBMITTED AS PART OF THIS APPLICATION. INCLUDE THE PAGE NUMBERS ON EACH ITEM (ATTACH ADDITIONAL SHEETS IF NECESSARY):

TOTAL NUMBER OF PAGES _____

APPLICATION FOR OPERATING PERMIT ONLY



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Form Management Center.

DISPOSITION OF WASTE MATERIALS(A) NAME OF EQUIPMENT OR PROCESS TO BE CONSTRUCTED OR OPERATED (B)	FOR AGENCY USE ONLY
	REFERENCE I.D. NO. _____
	REFERENCE PERMIT NO. _____ DATE _____

1a. NAME OF OWNER: PROCESS & INDUSTRIAL FABRICATION COMPANY		2a. NAME OF OPERATOR: PROCESS & INDUSTRIAL FABRICATION COMPANY	
1b. STREET ADDRESS OF OWNER: 6100 SW WASHINGTON STREET		2b. STREET ADDRESS OF OPERATOR: 6100 SW WASHINGTON STREET	
1c. CITY OF OWNER: BARTONVILLE		2c. CITY OF OPERATOR: BARTONVILLE	
1d. STATE OF OWNER: ILLINOIS	1e. ZIP CODE: 61607	2d. STATE OF OPERATOR: ILLINOIS	2e. ZIP CODE: 61607

3a. NAME OF CORPORATE DIVISION OR PLANT: RITE WAY		3b. STREET ADDRESS OF EMISSION SOURCE: 6201 SOUTH EAST AVENUE		
3c. CITY OF EMISSION SOURCE: HODGKINS	3d. LOCATED WITHIN CITY LIMITS: <input type="checkbox"/> YES <input type="checkbox"/> NO	3e. TOWNSHIP:	3f. COUNTY: COOK	3g. ZIP CODE:

4. ALL CORRESPONDENCE TO: (NAME OF INDIVIDUAL) C. J. BRAGG	5. TELEPHONE NUMBER FOR AGENCY TO CALL: (312) 748-7200
6. ADDRESS FOR CORRESPONDENCE: (CHECK ONLY ONE) <input type="checkbox"/> OWNER <input checked="" type="checkbox"/> OPERATOR <input type="checkbox"/> EMISSION SOURCE	7. YOUR ID NUMBER FOR THIS APPLICATION: (C)

(A) THIS FORM IS TO BE COMPLETED FOR ANY STATIONARY EMISSION SOURCE THAT WILL RESULT IN THE PRODUCTION OF WASTE MATERIAL THAT MAY BE DISPOSED OF IN A MANNER THAT MAY CAUSE OR TEND TO CAUSE POLLUTION IN ILLINOIS EITHER ALONE OR IN COMBINATION WITH MATTER FROM OTHER SOURCES OR SO AS TO VIOLATE REGULATIONS OR STANDARDS ADOPTED BY THE POLLUTION CONTROL BOARD UNDER THE ENVIRONMENTAL PROTECTION ACT.

(B) ENTER INFORMATION HERE FROM COMPARABLE BLOCK ON APC-200 - "APPLICATION FOR A PERMIT".

(C) ENTER INFORMATION IN ITEM 7 ABOVE SAME AS ITEM 7 APC-200 - "APPLICATION FOR A PERMIT".

(D) IF ADDITIONAL SPACE IS REQUIRED USE ADDITIONAL SHEETS, ATTACH AND IDENTIFY INFORMATION BY APPROPRIATE BLOCK NUMBER AS IT APPEARS ON THIS FORM.

THIS ADDENDUM WILL BE REVIEWED BY THE DIVISION OF LAND POLLUTION CONTROL AND THE OWNER WILL BE NOTIFIED WHETHER OR NOT A DETAILED APPLICATION FOR A PERMIT WILL NEED TO BE SUBMITTED. THIS FORM APC-103 - "DISPOSITION OF SOLID WASTE" IN ITSELF SHALL NOT BE CONSIDERED TO BE AN APPLICATION FOR A PERMIT. PROPER APPLICATION FOR PERMIT FORMS WILL BE MAILED TO YOU BY THE DIVISION OF LAND POLLUTION CONTROL, IF IT IS DEEMED THAT THE FACILITY REQUIRES A PERMIT.

8. BRIEFLY DESCRIBE THE PROCESS WHICH WILL RESULT IN THE PRODUCTION OF WASTE MATERIAL:

The general operation is for the destructive distillation of film chips into a producer gas (CO & hydrogen) and a char by processing in a destructive distillation unit at ca 1400°F in the absence of air.

9. DESCRIBE THE STATE OF THE WASTE MATERIAL (SLURRY, CAKE, FINE ASH, CINDERS, POWDER, SLUDGE, WATER SUSPENDED, ETC.) AT THE APPLICANT'S PROPOSED DISPOSAL SITE:

The char produced varies from cinders to powder (98% retained on 40 mesh screen)

10. FOR THE WASTE STATE THE CHEMICAL COMPOSITION, EXPRESSED AS WEIGHT PERCENTAGES OF SOLID WASTE OR IN MILLIGRAMS PER LITER FOR LIQUIDS:

95% carbon <5 ppm cyanide
5% hydrogen

10a. STATE VOLUME & WEIGHT OF THE WASTE GENERATED BY THIS OPERATION:

DAILY 86,400#/DAY WEEKLY 604,800#/W MONTHLY N/A /MO. YEARLY N/A /YR OTHER EXPLAIN

11a. WILL THE WASTE MATERIAL BE DEPOSITED IN A SANITARY LANDFILL PERMITTED BY THE ENVIRONMENTAL PROTECTION AGENCY?

☒ YES

☐ NO

11b. IF THE ANSWER TO 11a IS "YES", STATE THE NAME AND AGENCY SUPPLEMENTAL PERMIT NUMBER OF SUCH SITE.

NAME Unknown at present

SUPPLEMENTAL PERMIT NO.

12a. WILL THE WASTE MATERIAL BE STORED OR PROCESS AT THE APPLICANT PLANT OR PREMISES?

☐ YES

☒ NO

12b. IF THE ANSWER TO 12a IS "YES", EXPLAIN.

13a. WILL THE WASTE MATERIAL BE TRANSPORTED TO A REMOTE SITE FOR STORAGE, PROCESSING, OR DISPOSAL?

☒ YES

☐ NO

13b. IF THE ANSWER TO 13a IS "YES", EXPLAIN.

The char will be transported to a land fill for disposal or the material will be sold to a asphalt plant for incorporation in road surfacing material.

14a. WILL THE WASTE MATERIAL BE INCINERATED?

☐ YES

☒ NO

14b. IF THE ANSWER TO 14a IS "YES", EXPLAIN.

15a. IF THE WASTE WILL BE DISPOSED OR UTILIZED IN A MANNER NOT OTHERWISE DESCRIBED, STATE THE METHOD OF UTILIZATION OR DISPOSAL TO BE USED AND THE OWNER AND LOCATION OF THE DISPOSAL OR PROCESSING FACILITY AND EXPLAIN.

N/A



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

This agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter III½, Section 1039. Disclosure of this information is required under that section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

*DATA AND INFORMATION

FUEL COMBUSTION EMISSION SOURCE

*THIS INFORMATION FORM IS TO BE COMPLETED FOR A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED FOR THE PRIMARY PURPOSE OF PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN EMISSION SOURCE THAT DOES NOT FIT THIS DESCRIPTION, INCLUDING AN EMISSION SOURCE USING DIRECT HEATING, IS EITHER A PROCESS EMISSION SOURCE OR AN INCINERATOR.

1. NAME OF OWNER: RITE WAY	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF EMISSION SOURCE: 6201 SOUTH EAST AVENUE	4. CITY OF EMISSION SOURCE: HODGKINS, IL.

GENERAL INFORMATION

5. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE: YES - ATTACHMENT WITH FORM 220		
6. MANUFACTURER: PROCESS & INDUSTRIAL FABRICATION COMPANY	7. MODEL NUMBER: PIFCO TAG #1	8. SERIAL NUMBER:
9. AVERAGE OPERATING TIME OF EMISSION SOURCE: N/A HRS/DAY DAYS/WK WKS/YR	10. MAXIMUM OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK VARIOUS/YR	
11. PERCENT OF ANNUAL HEAT INPUT: N/A DEC-FEB % MAR-MAY % JUN-AUG % SEP-NOV %		

INSTRUCTIONS

1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION.
2. COMPLETE THE APPROPRIATE FUEL SECTION OR SECTIONS. IF MORE THAN ONE FUEL IS FIRED OR IF THE CAPABILITY EXISTS TO FIRE MORE THAN ONE FUEL, THE ACTUAL USAGE OF FUELS AND THE RELATIONSHIP BETWEEN FUELS, SIMULTANEOUS FIRING, ALTERNATE FIRING, RESERVE FUEL, ETC., MUST BE MADE CLEAR.
3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
4. FIRING RATES AND CERTAIN OTHER ITEMS REQUIRE BOTH AVERAGE AND MAXIMUM VALUES.
5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS

AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD.
AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME.
AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.

MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FROM THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST HEAT PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY:
MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATION FOR ANY TWELVE MONTH PERIOD.
MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION.
MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

GAS FIRING

*11. ORIGIN OF GAS: ☐ PIPELINE ☐ DISTILLATE FUEL OIL GASIFICATION ☐ OTHER LIQUID FUEL GASIFICATION ☐ SOLID FUEL GASIFICATION ☒ BYPRODUCT: producer gas from destructive distillation SPECIFY SOURCE: destructive distillation

12. ARE YOU ON AN INTERRUPTIBLE GAS SUPPLY: ☐ YES ☒ NO
IF "YES", SPECIFY ALTERNATE FUEL: _____

13. ANNUAL CONSUMPTION: N/A SCF * 14. HEAT CONTENT: 554 BTU/SCF * 15. SULFUR CONTENT: NIL %BY WT.

16. AVERAGE FIRING RATE: 28.6 MM BTU/HR. 17. MAXIMUM FIRING RATE: _____ BTU/HR

*IF THE GAS FIRED IS NATURAL GAS, THESE ITEMS NEED NOT BE COMPLETED.

OIL FIRING

18. TYPE OF OIL: _____
GRADE NUMBER: ☐ 1 ☐ 2 ☐ 4 ☐ 5 ☐ 6 OTHER: SPECIFY _____

19. ANNUAL CONSUMPTION: _____ GALLONS 20. HEAT CONTENT: _____ ☐ BTU/LB ☐ BTU/GAL

21. SULFUR CONTENT: _____ %BY WT 22. ASH CONTENT: _____ %BY WT

23. DIRECTION OF FIRING: ☐ HORIZONTAL ☐ TANGENTIAL ☐ OTHER: SPECIFY _____

24. AVERAGE FIRING RATE: _____ BTU/HR 25. MAXIMUM FIRING RATE: _____ BTU/HR

SOLID FUEL FIRING

26. TYPE OF SOLID FUEL: ☐ SUB-BITUMINOUS COAL ☐ BITUMINOUS COAL ☐ ANTHRACITE COAL ☐ OTHER: SPECIFY _____

27. ANNUAL CONSUMPTION: _____ TONS 28. HEAT CONTENT AS FIRED: _____ BTU/LB

29. MOISTURE CONTENT AS FIRED: _____ %BY WT 30. ASH CONTENT AS FIRED: _____ %BY WT 31. SULFUR CONTENT AS FIRED: _____ %BY WT

32. TYPE OF FIRING: ☐ CYCLONE ☐ PULVERIZED { ☐ WET BOTTOM OR ☐ DRY BOTTOM, ☐ HORIZONTALLY OPPOSED OR ☐ OTHER: SPECIFY _____
☐ SPREADER STOKER: % REINJECTION _____ ☐ OTHER: SPECIFY _____

33. AVERAGE FIRING RATE: _____ BTU/HR 34. MAXIMUM FIRING RATE: _____ BTU/HR

SUBMIT COPIES OF THOSE PORTIONS OF COAL OR OTHER SOLID FUEL CONTRACTS WHICH SET FORTH THE SPECIFICATIONS OF THE FUEL AND THE DURATION OF THE CONTRACT. IF THE ACTUAL FUEL FIRED IS A BLEND OF SOLID FUELS, SUBMIT APPROPRIATE PORTIONS OF ALL FUEL CONTRACTS AND SET FORTH THE MANNER IN WHICH THE FUELS ARE BLENDED AND ACTUALLY FIRED. REFERENCE THIS INFORMATION TO THIS FORM.

*EMISSION INFORMATION

35. NUMBER OF IDENTICAL SOURCES (DESCRIBE AS REQUIRED):
N/A

AVERAGE OPERATION

CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE	
PARTICULATE MATTER	36a.	GR/SCF	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.
CARBON MONOXIDE	37a.	PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.
NITROGEN OXIDES	38a.	PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.
ORGANIC MATERIAL	39a.	PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.
SULFUR DIOXIDE	40a.	PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.

MAXIMUM OPERATION

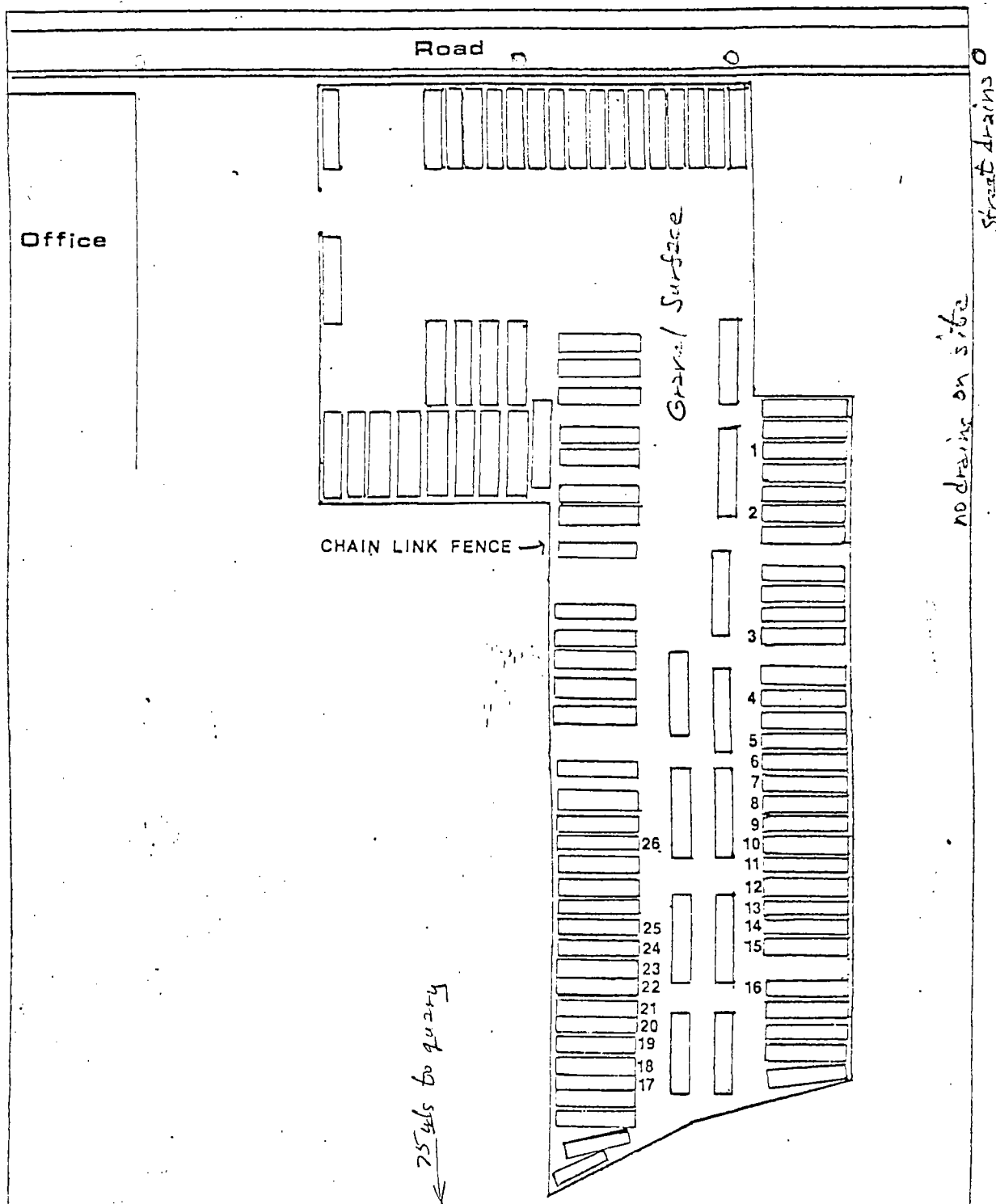
CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE	
PARTICULATE MATTER	41a.	GR/SCF	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.
CARBON MONOXIDE	42a.	PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c. CALIFORNIA RULE 71
NITROGEN OXIDES	43a.	PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c. AS NO 2 CHEMLUMINESCENCE
ORGANIC MATERIAL	44a.	PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.
SULFUR DIOXIDE	45a.	PPM (VOL)	b. <input type="checkbox"/> LB/10 ⁶ BTU <input type="checkbox"/> LB/HR	c.

*IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT, OR IF NATURAL GAS IS THE FUEL FIRED, ITEMS 36 THROUGH 47 NEED NOT BE COMPLETED.

**EXHAUST POINT INFORMATION

46. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT:	
47. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):	
48. EXIT HEIGHT ABOVE GRADE:	50. EXIT DIAMETER:
49. GREATEST HEIGHT OF NEARBY BUILDINGS: FT	51. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY: FT
AVERAGE OPERATION	MAXIMUM OPERATION
52. EXIT GAS TEMPERATURE: °F	54. EXIT GAS TEMPERATURE: °F
53. GAS FLOW RATE THROUGH EACH EXIT: ACFM	55. GAS FLOW RATE THROUGH EACH EXIT: ACFM

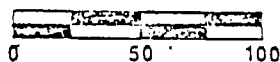
**IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT THIS SECTION SHOULD NOT BE COMPLETED.



GEMINI LEASING (RITE-WAY) Figure 4
 6201 SOUTH EAST AVE.
 HODGKINS, IL.

APPROXIMATE SCALE:

FEET



Per site visit of 17 Oct 1983

Dec 8

19 October 1983



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706
TELEPHONE (217) 782-5812

RECEIVED
AUG 24 1984

IEPA-DLPC

AIR POLLUTION EPISODE ACTION PLAN

NAME OF FACILITY
RITE WAY

DATE:
8/23/84

LOCATION OF FACILITY - STREET:
6201 SOUTH EAST AVENUE

CITY OR TOWNSHIP:
HODGKINS

COUNTY:
COOK

MAILING ADDRESS - STREET OR BOX NO.:

CITY:

STATE AND ZIP:

PERSON TO BE NOTIFIED DURING EPISODE:

TITLE:

OFFICE PHONE:

HOME PHONE:

1.	C. J. BRAGG	PRESIDENT	(312) 748-7200	(312) 735-8261
2.	J. LARUE	VICE PRESIDENT	(307) 697-9518	(307) 694-6688
3.	L. AMBROSE	PROJECT MANAGER	(312) 825-3197	(312) 825-3197

FACILITY OPERATIONS: Describe operations or products manufactured.

Destructive distillation of cyanide contaminated film chips.

DESCRIPTION OF OPERATIONS AND/OR EMISSION SOURCES FOR WHICH AN ACTION PLAN IS REQUIRED:

The general operation is for the destructive distillation of film chips by heating to ca 1400°F in the absence of air, decomposing the cyanide radical and the film base to gaseous products which are then burned in a "flare stack" (incinerated).

The source of emissions is the flare stack which will be monitored for CO continuously for excess air control and for particulate matter by stack analysis.

The second source to be monitored is the char produced as an end-product of the film base. This will be monitored for cyanide on a composite daily sample.

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1010 Disclosure of this information is required. Failure to do so may result in a civil penalty up to \$10,000.00 and an additional civil penalty up to \$1,000.00 for each day the failure continues, a fine up to \$1,000.00 and imprisonment up to one year. This form has been approved by the Forms Management Center.

REMARKS:

PERSON TO BE CONTACTED FOR FURTHER INFORMATION:
REGARDING THIS PLAN:

C. J. BRAGG

(312) 748-7200

(Name)

(Phone)

SIGNATURE: The undersigned hereby submits its episode action plan in accordance with Rule 404 Chapter 2, Part IV, Illinois Pollution Control Regulations amended April 19, 1976 and certifies that the statements contained herein are true and correct. This plan indicates emission reduction actions which will be taken in the event of an air pollution episode.

OWNER OF FACILITY

OPERATOR OF FACILITY (If other than owner)

Name (printed)

Name (printed)

Signature

Signature

Title

Title

NAME OF FACILITY

EPISODE ACTION PROGRAM

THE ACTIONS LISTED BELOW WILL BE TAKEN WHENEVER EPISODE STAGES AND POLLUTANTS OCCUR IN THE COMBINATIONS INDICATED.
(DURING PRODUCT EPISODES BOTH S AND P ACTIONS WILL BE TAKEN.)

ACTIONS REQUIRED OF ALL FACILITIES

STAGE	POLLUTANTS	
YRE	O	NO REFUSE BURNING CONDUCTED.
Y	CNP	NO REFUSE BURNING CONDUCTED OTHER THAN IN INCINERATORS MEETING ILLINOIS EMISSION STANDARDS (FOR APPLICABLE POLLUTANT) AND DURING HOURS OF NOON TO 4 PM (OR OTHER HOURS AS ANNOUNCED BY ILLINOIS EPA).
RE	O	NO BUILDINGS HEATED TO MORE THAN 65°F OR AIR CONDITIONED TO LESS THAN 80°F. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO FLEET VEHICLES DISPATCHED AFTER DECLARATION OF ALERT AND NONE OPERATED ON SECOND AND SUBSEQUENT DAYS OF ALERT. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO ELECTRICITY USED FOR DECORATIVE OR ADVERTISING PURPOSES. NO GASOLINE OR OTHER VOLATILE ORGANIC MATERIAL IN EXCESS OF 250 GALLONS LOADED OR RECEIVED.
RE	CNP	NO REFUSE BURNING CONDUCTED.
E	NSP	NO BUILDINGS HEATED TO MORE THAN 65°F. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO ELECTRICITY USED UNNECESSARILY SUCH AS FOR DECORATIVE, AMUSEMENT OR ADVERTISING PURPOSES.
E	OCNSP	NO MOTOR VEHICLES OPERATED OR MANUFACTURING CONDUCTED. (EXCEPT AS AUTHORIZED BY EPISODE REGULATIONS.) NO FACILITY OR ACTIVITY LISTED IN EMERGENCY SECTION OF EPISODE REGULATIONS OPERATED.

DETAILED DESCRIPTION OF ADDITIONAL ACTIONS REQUIRED OF THIS FACILITY

STAGE	POLLUTANTS	
YRE	CP	<p>Check calibration of monitor for true level of CO, if in good working order, then adjust the excess air level of the flare stack.</p> <p>Secondly, check feed rate to unit; if high back-off, if temperature in the destructive distillation zone is too high, back-off to set point or re-establish lower set point of operation.</p> <p>Third operation, check for the feed rate of the film chips to the destructive distillation unit. If high, establish set point rate. If level is too high, back-off and establish new feed level.</p>
E	CP	<p>Go to 50% of set point feed rate to maintain unit operation and re-establish design parameters and slowly bring unit back to set point feed rate in steps to maintain <500 ppm CO.</p>

ABBREVIATIONS USED: EPISODE STAGES Y = YELLOW ALERT, R = RED ALERT, E = EMERGENCY
POLLUTANTS O = OZONE, C = CARBON MONOXIDE, N = NITROGEN DIOXIDE, S = SULFUR DIOXIDE, P = PARTICULATE

Process & Industrial Fabrication Company
6100 S.W. Washington Street
Bartonville, Illinois 61607

Re: APC-206
Preliminary Inquiry for an Air Pollution Permit

Subject: Description of PIFCO's Destructive Distillation Unit
for Degradation of the Cyanide Tainted Film Chips

Attached is a schematic of the proposed system PIFCO is offering for the destruction of the cyanide tainted film chips. The peripheral feed equipment for the transport of the chips to the feed hopper consists of a Hi-Vac Air Transport System with a Ultra Fine Filtration System for the exit air, having an approximate one (1) micron absolute removal rating.

This equipment is depicted by the Chip-Scoop vacuum unit, the feed hopper and top-mounted filter system to clean up the air prior to incinerating any possible cyanide vapor picked-up by the transport air.

The feed hopper has high and low level controls which activate the vacuum system when the feed hopper is low and shuts off when the hopper is full. Chips are gravity fed to the feed ram cavity and the ram is time activated (strokes per minute) to control the feed rate to the high temperature conversion section to under-go destructive distillation.

For start-up purposes the conversion section is heated to approximately 900°F using LPG. Feed is introduced to the unit via the feed ram and the material starts to decompose producing a solid char and a producer gas (CO and hydrogen). The latter is fed to the conversion unit to bring the unit to operating temperature, at which time the LPG is backed-out and fed only to the flare stack pilot gas ring.

As the temperature is raised to the operating set point, the feed rate to the unit is increased to the pre-determined level. The producer gas produced from the decomposition of the film base as stated previously, is back fed to the converter to maintain the temperature set point. This normally takes approximately 15 to 25% of the total gas produced. The remainder of the gas is fed to the flare stack for total combustion.

The cyanide, if not decomposed in the conversion section, will be converted to carbon dioxide and nitrogen. The kinetic combustion constant for the C-N bond is 10 to the 12th power and at this high rate constant, the C-N bond will only exit in a flame front for several micro seconds at most. In a separate section of this proposal packet is a discussion of the experimental data using a sample of actual chips to confirm the basic design hypothesis. Film chips have been processed in a similar unit and experimental data was developed using the actual chips to confirm the calculated cyanide levels in the effluent streams.

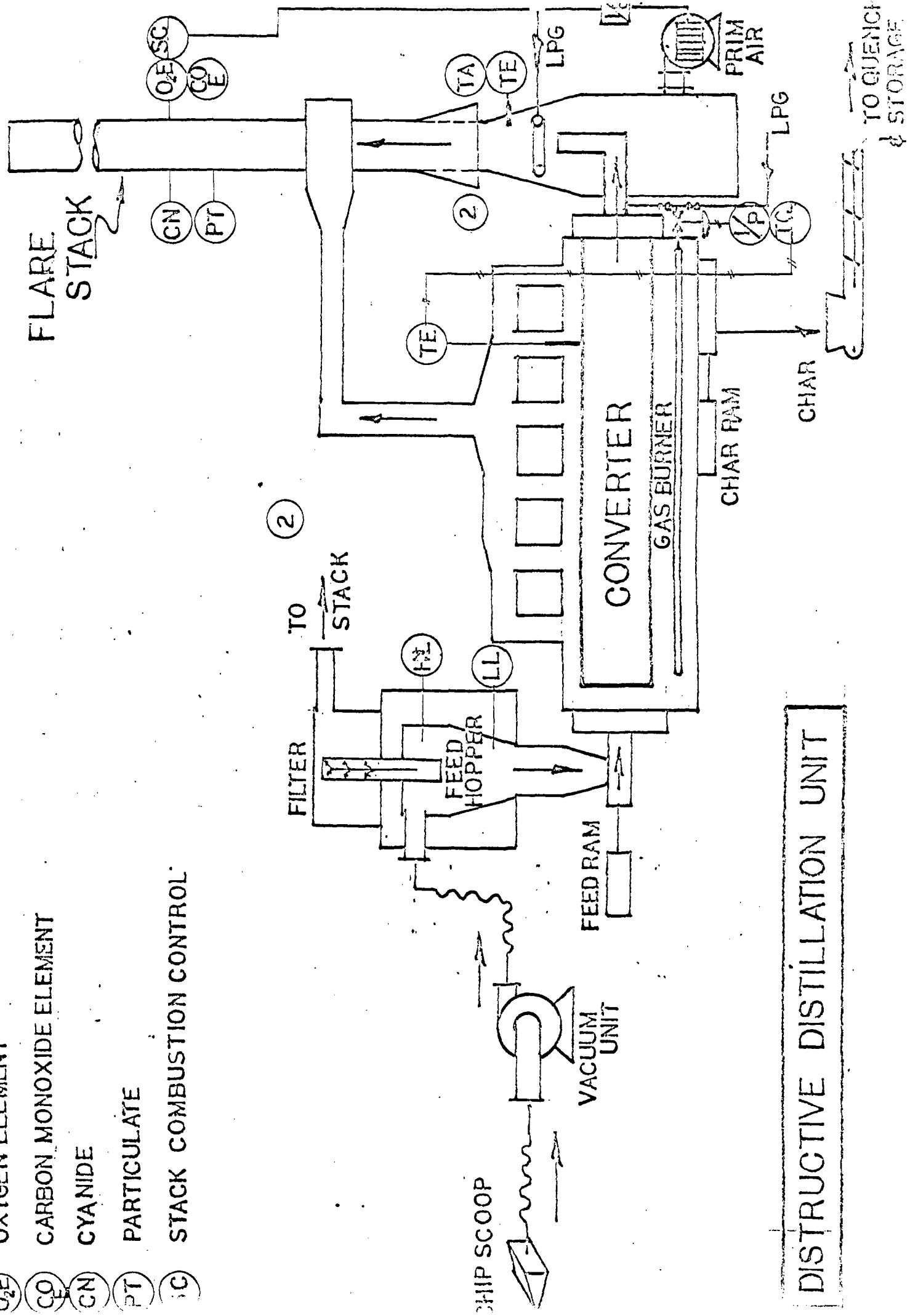
The producer gas is introduced to the flare stack for final combustion. The flare stack is to be monitored and controlled for CO and oxygen, combustion control loop. The stack is also monitored for cyanide with manual feed back (corrective action if too high) and for particulate levels with manual feed back.

Char is removed from the unit via the char hydraulic ram located on the bottom side forward end of the conversion section. The char drops into a conveyor to a storage area where the material is impounded until a cyanide analysis has been completed on the composite sample. The char batch is released for disposal if the cyanide level is 5 ppm or less. Any off-spec char can be recycled to the conversion section for additional thermal processing.

For any additional information or clarification of any item or area, please contact Mr. C. J. Bragg at the above location; telephone number (307) 697-9518 or (312) 748-7200.

O₂E
CO
CN
PT
IC

OXYGEN ELEMENT
CARBON MONOXIDE ELEMENT
CYANIDE
PARTICULATE
STACK COMBUSTION CONTROL



DESTRUCTIVE DISTILLATION UNIT



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

This Agency is authorized to require this information under Illinois Revised Statutes, 1979, Chapter 111 1/2, Section 1039. Disclosure of this information is required under that Section. Failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

*DATA AND INFORMATION
PROCESS EMISSION SOURCE

*THIS INFORMATION FORM IS TO BE COMPLETED FOR AN EMISSION SOURCE OTHER THAN A FUEL COMBUSTION EMISSION SOURCE OR AN INCINERATOR. A FUEL COMBUSTION EMISSION SOURCE IS A FURNACE, BOILER, OR SIMILAR EQUIPMENT USED PRIMARILY FOR PRODUCING HEAT OR POWER BY INDIRECT HEAT TRANSFER. AN INCINERATOR IS AN APPARATUS IN WHICH REFUSE IS BURNED.

1. NAME OF PLANT OWNER: RITE WAY	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF EMISSION SOURCE: 6201 SOUTH EAST AVENUE	4. CITY OF EMISSION SOURCE: HODGKINS, IL.

GENERAL INFORMATION		
5. NAME OF PROCESS: DESTRUCTIVE DISTILLATION UNIT	6. NAME OF EMISSION SOURCE EQUIPMENT: FLARE STACK (PORTABLE)	
7. EMISSION SOURCE EQUIPMENT MANUFACTURER: PROCESS & INDUSTRIAL FABRICATION COMPANY	8. MODEL NUMBER: PIFCO TAG #1	9. SERIAL NUMBER:
10. FLOW DIAGRAM DESIGNATION(S) OF EMISSION SOURCE: YES - ATTACHED		
11. IDENTITY(S) OF ANY SIMILAR SOURCE(S) AT THE PLANT OR PREMISES NOT COVERED BY THE FORM (IF THE SOURCE IS COVERED BY ANOTHER APPLICATION, IDENTIFY THE APPLICATION): N/A		
12. AVERAGE OPERATING TIME OF EMISSION SOURCE: N/A HRS/DAY DAYS/WK WKS/YR		13. MAXIMUM OPERATING TIME OF EMISSION SOURCE: 24 HRS/DAY 7 DAYS/WK VARIABLE YR
14. PERCENT OF ANNUAL THROUGHPUT: N/A DEC-FEB % MAR-MAY % JUN-AUG % SEPT-NOV %		

INSTRUCTIONS
1. COMPLETE THE ABOVE IDENTIFICATION AND GENERAL INFORMATION SECTION.
2. COMPLETE THE RAW MATERIAL, PRODUCT, WASTE MATERIAL, AND FUEL USAGE SECTIONS FOR THE PARTICULAR SOURCE EQUIPMENT. COMPOSITIONS OF MATERIALS MUST BE SUFFICIENTLY DETAILED TO ALLOW DETERMINATION OF THE NATURE AND QUANTITY OF POTENTIAL EMISSIONS. IN PARTICULAR, THE COMPOSITION OF PAINTS, INKS, ETC., AND ANY SOLVENTS MUST BE FULLY DETAILED.
3. EMISSION AND EXHAUST POINT INFORMATION MUST BE COMPLETED, UNLESS EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.
4. OPERATING TIME AND CERTAIN OTHER ITEMS REQUIRE BOTH AVERAGE AND MAXIMUM VALUES.
5. FOR GENERAL INFORMATION REFER TO "GENERAL INSTRUCTIONS FOR PERMIT APPLICATIONS," APC-201.

DEFINITIONS
AVERAGE - THE VALUE THAT SUMMARIZES OR REPRESENTS THE GENERAL CONDITION OF THE EMISSION SOURCE, OR THE GENERAL STATE OF PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: AVERAGE OPERATING TIME - ACTUAL TOTAL HOURS OF OPERATION FOR THE PRECEDING TWELVE MONTH PERIOD. AVERAGE RATE - ACTUAL TOTAL QUANTITY OF "MATERIAL" FOR THE PRECEDING TWELVE MONTH PERIOD, DIVIDED BY THE AVERAGE OPERATING TIME. AVERAGE OPERATION - OPERATION TYPICAL OF THE PRECEDING TWELVE MONTH PERIOD, AS REPRESENTED BY AVERAGE OPERATING TIME AND AVERAGE RATES.
MAXIMUM - THE GREATEST VALUE ATTAINABLE OR ATTAINED FROM THE EMISSION SOURCE, OR THE PERIOD OF GREATEST OR UTMOST PRODUCTION OF THE EMISSION SOURCE. SPECIFICALLY: MAXIMUM OPERATING TIME - GREATEST EXPECTED TOTAL HOURS OF OPERATIONS FOR ANY TWELVE MONTH PERIOD. MAXIMUM RATE - GREATEST QUANTITY OF "MATERIAL" EXPECTED PER ANY ONE HOUR OF OPERATION. MAXIMUM OPERATION - GREATEST EXPECTED OPERATION, AS REPRESENTED BY MAXIMUM OPERATING TIME AND MAXIMUM RATES.

RAW MATERIAL INFORMATION		
NAME OF RAW MATERIAL	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
20a. FILM CHIPS	b. 3600 LB/HR	c. 3600 LB/HR
21a.	b. LB/HR	c. LB/HR
22a.	b. LB/HR	c. LB/HR
23a.	b. LB/HR	c. LB/HR
24a.	b. LB/HR	c. LB/HR

PRODUCT INFORMATION		
NAME OF PRODUCT	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
30a. PRODUCER GAS	b. 976 SCFM LB/HR	c. LB/HR
31a.	b. LB/HR	c. LB/HR
32a.	b. LB/HR	c. LB/HR
33a.	b. LB/HR	c. LB/HR
34a.	b. LB/HR	c. LB/HR

WASTE MATERIAL INFORMATION		
NAME OF WASTE MATERIAL	AVERAGE RATE PER IDENTICAL SOURCE	MAXIMUM RATE PER IDENTICAL SOURCE
40a. CARBON CHAR	b. 360 LB/HR	c. LB/HR
41a.	b. LB/HR	c. LB/HR
42a.	b. LB/HR	c. LB/HR
43a.	b. LB/HR	c. LB/HR
44a.	b. LB/HR	c. LB/HR

*FUEL USAGE INFORMATION		
FUEL USED	TYPE	HEAT CONTENT
50a. NATURAL GAS <input type="checkbox"/>	b. _____	c. 1000 BTU/SCF
OTHER GAS <input checked="" type="checkbox"/>	PRODUCER GAS	554 BTU/SCF
OIL <input type="checkbox"/>		BTU/GAL
COAL <input type="checkbox"/>		BTU/LB
OTHER <input checked="" type="checkbox"/>	PROPANE (START-UP)	2358 BTU/LB
d. AVERAGE FIRING RATE PER IDENTICAL SOURCE: from product producer gas 135,000 BTU/HR		e. MAXIMUM FIRING RATE PER IDENTICAL SOURCE: N/A BTU/HR

*THIS SECTION IS TO BE COMPLETED FOR ANY FUEL USED DIRECTLY IN THE PROCESS EMISSION SOURCE, E.G. GAS IN A DRYER, OR COAL IN A MELT FURNACE.

*EMISSION INFORMATION

51. NUMBER OF IDENTICAL SOURCES (DESCRIBE AS REQUIRED):

N/A

AVERAGE OPERATION

CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	52a. GR/SCF	b. LB/HR	c.
CARBON MONOXIDE	53a. PPM (VOL)	b. LB/HR	c.
NITROGEN OXIDES	54a. PPM (VOL)	b. LB/HR	c.
ORGANIC MATERIAL	55a. PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	56a. PPM (VOL)	b. LB/HR	c.
** OTHER (SPECIFY)	57a. PPM (VOL)	b. LB/HR	c.

MAXIMUM OPERATION

CONTAMINANT	CONCENTRATION OR EMISSION RATE PER IDENTICAL SOURCE		METHOD USED TO DETERMINE CONCENTRATION OR EMISSION RATE
PARTICULATE MATTER	58a. .0517 GR/SCF	b. 0.4195 LB/HR	c.
CARBON MONOXIDE	59a. 50 PPM (VOL)	b. LB/HR	c. CALIFORNIA RULE 71
NITROGEN OXIDES	60a. 210 PPM (VOL)	b. LB/HR	c. AS NO ₂ - CHEMILUMINESCENCE
ORGANIC MATERIAL	61a. NIL PPM (VOL)	b. LB/HR	c.
SULFUR DIOXIDE	62a. NIL PPM (VOL)	b. LB/HR	c.
** OTHER (SPECIFY)	63a. PPM (VOL)	b. LB/HR	c.

* ITEMS 52 THROUGH 63 NEED NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.

***"OTHER" CONTAMINANT SHOULD BE USED FOR AN AIR CONTAMINANT NOT SPECIFICALLY NAMED ABOVE. POSSIBLE OTHER CONTAMINANTS ARE ASBESTOS, BERYLLIUM, MERCURY, VINYL CHLORIDE, LEAD, ETC.

***EXHAUST POINT INFORMATION

64. FLOW DIAGRAM DESIGNATION(S) OF EXHAUST POINT:

65. DESCRIPTION OF EXHAUST POINT (LOCATION IN RELATION TO BUILDINGS, DIRECTION, HOODING, ETC.):

66. EXIT HEIGHT ABOVE GRADE:

67. EXIT DIAMETER:

68. GREATEST HEIGHT OF NEARBY BUILDINGS:

FT

69. EXIT DISTANCE FROM NEAREST PLANT BOUNDARY:

FT

AVERAGE OPERATION

MAXIMUM OPERATION

70. EXIT GAS TEMPERATURE:

OF

72. EXIT GAS TEMPERATURE:

OF

71. GAS FLOW RATE THROUGH EACH EXIT:

ACFM

73. GAS FLOW RATE THROUGH EACH EACH EXIT:

ACFM

*** THIS SECTION SHOULD NOT BE COMPLETED IF EMISSIONS ARE EXHAUSTED THROUGH AIR POLLUTION CONTROL EQUIPMENT.



STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
2200 CHURCHILL ROAD
SPRINGFIELD, ILLINOIS 62706

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DATA AND INFORMATION	FOR AGENCY USE ONLY
INCINERATOR	

1. NAME OF OWNER: RITE WAY	2. NAME OF CORPORATE DIVISION OR PLANT (IF DIFFERENT FROM OWNER):
3. STREET ADDRESS OF EMISSION SOURCE: 6201 SOUTH EAST AVENUE	4. CITY OF EMISSION SOURCE: HODGKINS, IL.

GENERAL INFORMATION	
5. FLOW DIAGRAM DESIGNATIONS OF INCINERATORS DESCRIBED ON THIS FORM (REFER TO "GENERAL INSTRUCTIONS FOR COMPLETION OF PERMIT APPLICATIONS," FORM APC-201): SEE ATTACHMENT WITH FORM 220	
6. DESCRIPTION OF SOURCE OF WASTE: FILM CHIPS	FOR AGENCY USE ONLY DO NOT COMPLETE THIS SECTION
7. MANUFACTURER OF INCINERATOR: PROCESS & INDUSTRIAL FABRICATION COMPANY	MANUFACTURER CODE
8. MODEL NAME AND NUMBER: PIFCO TAG #1	9. <input checked="" type="checkbox"/> FLUE <input type="checkbox"/> SINGLE CHAMBER <input type="checkbox"/> MULTIPLE CHAMBER
10. MAXIMUM AMOUNT OF WASTE TO BE INCINERATED: 3,240 LB/HR	CAPACITY CODE
11. ESTIMATED DAILY AMOUNT OF WASTE TO BE INCINERATED: 86,400 LB	PARTICULATE EMISSION FACTOR CODE
12. HEIGHT OF STACK ABOVE GRADE: 40 FT	CO EMISSION FACTOR CODE
13. HEIGHT OF TALLEST STRUCTURES WITHIN 150 FEET: VARIOUS FT	
14. PRIMARY BURNER USED? <input type="checkbox"/> YES <input type="checkbox"/> NO N/A	MAX RATING _____ BTU/HR PRIMARY BURNER CODE
15. SECONDARY BURNER USED? <input type="checkbox"/> YES <input type="checkbox"/> NO N/A	MAX RATING _____ BTU/HR SECONDARY BURNER CODE

DESCRIPTION OF TYPICAL WASTE TO BE INCINERATED		
16a. PAPER: _____ % BY WT	b. DRY WOOD: _____ % BY WT	c. LEATHER, LINOLEUM: _____ % BY WT
d. RUBBER AND PLASTICS: _____ % BY WT	e. OILS AND PAINTS: _____ % BY WT	f. STREET AND FLOOR SWEEPINGS: _____ % BY WT
g. FATS AND MEAT DRESSING: _____ % BY WT	h. GLASS AND CERAMICS: _____ % BY WT	i. METALS: _____ % BY WT
j. LEAVES, GRASS, BRANCHES, VEGETABLES & FRUITS: _____ % BY WT		k. OTHER (SPECIFY): producer gas from destructive distillation unit _____ % BY WT

FOR AGENCY USE ONLY

OPERATIONAL INFORMATION

17. AVERAGE OPERATION TIME OF INCINERATOR: N/A HRS/DAY DAYS/WEEK WKS/YEAR

17a. MAXIMUM OPERATION TIME OF INCINERATOR: VARIOUS HRS/DAY 24 DAYS/WEEK 7 WKS/YEAR

18. PERCENT OF ANNUAL THROUGHPUT:
BY SITE DEC/FEB % MAR/MAY % JUN/AUG % SEP/NOV %

SPECIAL NOTES

19a. FOR INDUSTRIAL WASTES, COMPLETE COMPONENT AND/OR CHEMICAL DESCRIPTION INCLUDING SULFUR, CHLORIDE, ASH, AND MOISTURE CONTENT, MUST BE GIVEN IN AN EXHIBIT ATTACHED TO THIS APPLICATION. N/A

b. THE AGENCY MUST HAVE ON FILE PROOF THAT THE MAKE AND MODEL INCINERATOR DESCRIBED HEREIN WILL MEET THE REQUIREMENTS OF RULES 203(e) AND 206(b) WHEN BURNING THE WASTE, BOTH TYPE AND RATE, DESCRIBED HEREIN.

c. GAS CLEANING DEVICE? (IF "YES", COMPLETE APC-260, ENTITLED "DATA AND INFORMATION -- AIR POLLUTION CONTROL EQUIPMENT")
☒ YES ☐ NO

d. IF LOCATED IN COOK COUNTY, SUBMIT ADDITIONAL PERMIT APPLICATION PLUS COOK COUNTY CONSTRUCTION PERMIT APPLICATION.
N/A

e. COMPLETE APC-103, ENTITLED "DISPOSITION OF WASTE MATERIALS" FOR ASH OR RESIDUE FROM INCINERATOR."
FORM 103 COMPLETED AND ATTACHED

b. 0.05 gr/SCF PARTICULATE / <500 ppm CO @ 50% EXCESS AIR
(see attached engineering report)

CONFIDENTIAL



35-45
SAN BERNARDINO COUNTY
AIR POLLUTION CONTROL DISTRICT

172 WEST THIRD STREET • SAN BERNARDINO, CALIFORNIA 92415

Telephone:
(714) 383-1661

January 15, 1975

Mr. George King
Pan American Resources
P. O. Box 481
West Covina, CA 91793

Dear Mr. King:

The results of the source test which were conducted by the Air Pollution Control District source test team at Pan American Resources on November 22, 1974 are as follows:

	RETORT		FURNACE	
	Measured	Allowed	Measured	Allowed
Particulates				
lbs/hr	0.4185	1.18	0.0441	1.18
Grs/SCF	0.0527	0.20	0.0198	0.20
Carbon Monoxide				
ppm	100	2,000	320	2,000

As the above data show, Pan American Resources meets the requirements of the San Bernardino County Air Pollution Control District Rules and Regulations.

A formal engineering report will be completed and a copy forwarded to you in the near future.

Very truly yours,

DONALD M. THOMAS
Air Pollution Control Officer

By:

Robert J. Hilovsky
ROBERT J. HILOVSKY, P.E.
Senior Engineer

DMT:RJH:mmm

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REPORT OF SOURCE TEST

conducted at

PAN AMERICAN RESOURCES
Upland, California

November 22, 1974

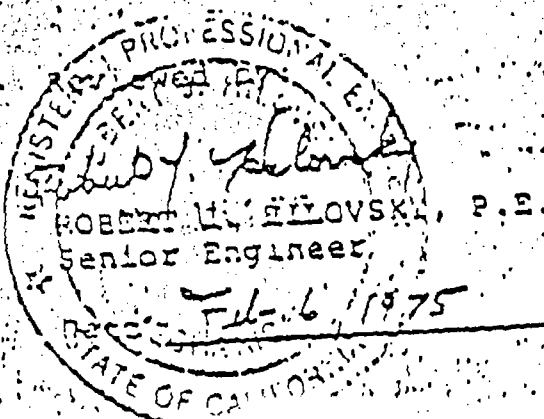
REPORT OF PARTICULATE, CO AND NOx EMISSIONS FROM A
REGENERATIVE INCINERATOR SYSTEM

Written by:

M. L. Howeth
Sr. Air Pollution Control Engineer

Approved by

Donald M. Thomas
DONALD M. THOMAS
Air Pollution Control Officer



INTRODUCTION

Pan American Resources burns paper and other dry trash in a closed regenerative system. The reduction of the trash in a closed retort produces a gas which is then burned to produce the heat to cause reduction of the incoming trash. Charcoal is produced as a by-product of the process.

OBJECTIVE

The objective was to determine compliance with San Bernardino County APCD Rules and Regulations and for engineering information.

RESULTS

The results obtained and their relationship to the Rules and Regulations of the San Bernardino County APCD are shown below.

Source	Flowrate SCFM (dry)	NOx ppm	CO		PARTICULATE MATTER	
			Measured ppm	Allowable ppm	Measured	Allowable
Furnace	259	420	340	2,000	0.044 lbs/hr	1.18 lbs/hr
					0.0198 Gr/SCF	0.20 Gr/SCF
Retort	971	210	50	2,000	0.418	1.18

RECOMMENDATIONS

It is recommended that the permit to operate be issued for this unit, since its emissions meet the limitations of the San Bernardino County Rules and Regulations.

31-15
SUMMARY: EMISSIONS TO ATMOSPHERE
 New Sources and Existing Sources After January 1, 1975

Date Nov. 22, 1974
 Test _____

Name of Firm Pan American Resources

Location Upland, CA

Page _____ of _____

Type of Operation Incinerator Process Weight 320 lbs.

Unit Tested Retort

Gas Flow Rate, SCFM 971

Gas Temperature, °F 500

Measured Emissions Allowable Emissions

Rule 50A Visible Emissions _____ Ringelmann #1 Ringelmann

Rule 52A Particulate Matter 0.0517 Grs/SCF (dry) 0.20 Grs/SCF

Rule 53A(a) Sulfur Compounds as SO₂ _____ PPM by Vol. 500 PPM by Vol.
 _____ Lbs/hr

Rule 53A(b) Combustion Contaminants _____ Grs/SCF @ 12% CO₂ 0.1 Grs/SCF @ 12% CO₂

Rule 54A Solid Particulate Matter 0.4195 Lbs/hr 1.19 Lbs/hr

Rule 58A Disposal of Solid and Liquid Wastes (b) 100 lbs/hr _____ Grs/SCF @ 12% CO₂ 0.1 Grs/SCF @ 12% CO₂

(d) 100 lbs/hr _____ Grs/SCF @ 12% CO₂ 0.3 Grs/SCF @ 12% CO₂

Rule 66 Solvents (reactive hydrocarbons measured as methane) _____ PPM Inlet
 _____ PPM Outlet
 _____ % Conversion 90 % Conversion
 _____ Lbs/day _____ Lbs/day

Rule 68 Oxides of Nitrogen as NO₂ _____ PPM @ 3% O₂ Gas 125 PPM @ 3% O₂ Gas
 (Unit: 1775 Million BTU/hr) _____ PPM @ 3% O₂ Oil 125 PPM @ 3% O₂ Oil

Rule 71 Carbon Monoxide 50 PPM by Vol. 2000 PPM by Vol.

CO₂ _____ % by Vol.

Information Data NO_x as NO₂ 210 PPM by Vol.

Other _____

Comments:

SUMMARY: EMISSIONS TO ATMOSPHERE

New Sources and Existing Sources After January 1, 1975

Name of Firm Pan American Resources Date Nov. 22, 1974
 Location Upland, CA Test
 Type of Operation Incinerator Page of
 Unit Tested Furnace Process Weight 330 lbs/

		Measured Emissions	Allowable Emissions
Gas Flow Rate, SCFM	259		
Gas Temperature, °F	930		
Rule 50A	Visible Emissions	Ringelmann	#1 Ringelmann
Rule 52A	Particulate Matter	0.0198 Grs/SCF (dry)	0.20 Grs/SCF
Rule 53A(a)	Sulfur Compounds as SO ₂	ppm by Vol.	500 ppm by Vol.
		Lbs/hr	
		Grs/SCF @ 12% CO ₂	0.1 Grs/SCF @ 12% CO ₂
Rule 53A(b)	Combustion Contaminants		
		0.0441 Lbs/hr	1.18 Lbs/hr
Rule 54A	Solid Particulate Matter		
Rule 58A	Disposal of Solid and Liquid Wastes (b) 100 lbs/hr	Grs/SCF @ 12% CO ₂	0.1 Grs/SCF @ 12% CO ₂
		Grs/SCF @ 12% CO ₂	0.3 Grs/SCF @ 12% CO ₂
	(d) 100 lbs/hr		
Rule 66	Solvents (reactive hydrocarbons measured as methane)	ppm Inlet	
		ppm Outlet	
		% Conversion	90 % Conversion
		Lbs/day	Lbs/day
Rule 68	Oxides of Nitrogen as NO ₂ (Unit 1775 Million BTU/hr)	ppm @ 3% O ₂ Gas	125 ppm @ 3% O ₂
		ppm @ 3% O ₂ Oil	225 ppm @ 3% O ₂
Rule 71	Carbon Monoxide	320 ppm by Vol.	2000 ppm by Vol.
		2.5 % by Vol.	
Information Data	CO ₂	420 ppm by Vol.	
	NO _x as NO ₂		
	Other		

Comments: